PROJECT facts
U.S. Department of Energy
National Energy Research Laboratory

Materials and Advanced Metallurgical Research
11/2001

Extended-Lifetime Metallic Coatings for High-Temperature Environmental Protection

Project Lead
Oak Ridge National Laboratory (ORNL)
Oak Ridge, TN

Description

The purpose of this project is to examine important composition and microstructure issues associated with the development of extended-lifetime corrosion-resistant metallic coatings for high-temperature applications associated with the key technologies of the Office of Fossil Energy's Vision 21 concept. Two linked technical objectives support this effort. They are (1) for a given fossil environment, establishment of the coating composition and microstructure necessary for long-term high-temperature corrosion protection and (2) determination of the relationships among composition, microstructure, and a coating method.

Duration: 10/1/00 - 9/30/01

Product Support Areas

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells
✓	✓		✓	✓	✓

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